

SEQUENCE LISTING

JC20 Rec'd PCT/PTO 17 JUN 2005

<110> Agrinomics LLC

<120> GENERATION OF PLANTS WITH ALTERED OIL CONTENT

<130> AG03-084C-PC

<150> 60/434,601

<151> 2002-12-18

<160> 2

<170> PatentIn version 3.2

<210> 1

<211> 1545

<212> DNA

<213> *Arabidopsis thaliana*

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 35 40 45

Ser Leu Lys Gly Asn Leu Thr Ile Val Asp Glu Arg Thr Gly Lys Lys
 50 55 60

Tyr Gln Val Pro Val Ser Glu His Gly Thr Val Lys Ala Val Asp Leu
 65 70 75 80

Lys Lys Ile Thr Thr Gly Lys Asp Asp Lys Gly Leu Lys Leu Tyr Asp
 85 90 95

Pro Gly Tyr Leu Asn Thr Ala Pro Val Arg Ser Ser Ile Cys Tyr Ile
 100 105 110

Asp Gly Asp Glu Gly Ile Leu Arg Tyr Arg Gly Tyr Pro Ile Glu Glu
 115 120 125

Leu Ala Glu Ser Ser Thr Phe Ile Glu Val Ala Tyr Leu Leu Met Tyr
 130 135 140

Gly Asn Leu Pro Ser Gln Ser Gln Leu Ala Asp Trp Glu Phe Thr Val
 145 150 155 160

Ser Gln His Ser Ala Val Pro Gln Gly Val Leu Asp Ile Ile Gln Ser
 165 170 175

Met Pro His Asp Ala His Pro Met Gly Val Leu Val Ser Ala Met Ser
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Ala Leu Ser Ile Phe His Pro Asp Ala Asn Pro Ala Leu Ser Gly Gln
195 200 205

Asp Ile Tyr Lys Ser Lys Gln Val Arg Asp Lys Gln Ile Val Arg Ile
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Leu Gly Lys Ala Pro Thr Ile Ala Ala Ala Tyr Leu Arg Thr Ala
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Gly Arg Pro Pro Val Leu Pro Ser Ala Asn Leu Ser Tyr Ser Glu Asn
245 250 255

Phe Leu Tyr Met Leu Asp Ser Met Gly Asn Arg Ser Tyr Lys Pro Asn
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Pro Arg Leu Ala Arg Val Leu Asp Ile Leu Phe Ile Leu His Ala Glu
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His Glu Met Asn Cys Ser Thr Ala Ala Ala Arg His Leu Ala Ser Ser
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Gly Val Asp Val Tyr Thr Ala Cys Ala Gly Ala Val Gly Ala Leu Tyr
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Gly Pro Leu His Gly Gly Ala Asn Glu Ala Val Leu Lys Met Leu Ala
325 330 335

Glu Ile Gly Thr Ala Glu Asn Ile Pro Asp Phe Ile Glu Gly Val Lys
340 345 350

Asn Arg Lys Arg Lys Met Ser Gly Phe Gly His Arg Val Tyr Lys Asn
355 360 365

Tyr Asp Pro Arg Ala Lys Val Ile Lys Lys Leu Ala Asp Glu Val Phe
370 375 380

Ser Ile Val Gly Arg Asp Pro Leu Ile Glu Val Ala Val Ala Leu Glu
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Lys Ala Ala Leu Ser Asp Glu Tyr Phe Val Lys Arg Lys Leu Tyr Pro
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Asn Val Asp Phe Tyr Ser Gly Leu Ile Tyr Arg Ala Met Gly Phe Pro

420

425

430

Pro Glu Phe Phe Thr Val Leu Phe Ala Val Pro Arg Met Ala Gly Tyr
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Leu Ser His Trp Arg Glu Ser Leu Asp Asp Pro Asp Thr Arg Ile Met
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Arg Pro Gln Gln Ala Tyr Thr Gly Val Trp Met Arg His Tyr Glu Pro
465 470 475 480

Val Arg Glu Arg Thr Leu Ser Ser Asp Ser Asp Lys Asp Lys Phe Gly
485 490 495

Gln Val Ser Ile Ser Asn Ala Ser Arg Arg Arg Leu Ala Gly Ser Ser
500 505 510

Ala Leu